

ABSTRACT OF THE DISCLOSURE

A position encoder is provided for indicating the relative position between first and second relatively move members. One of the members carries a magnetic field generator which generates a magnetic field whose magnitude and direction vary with position. In a preferred embodiment, the other member carries an excitation winding, one or more sensor windings and a film of magnetisable material. The arrangement is such that the positionally varying magnetic field interacts with the film to change the mutual coupling between the excitation winding and the or each sensor winding. Excitation and processing circuitry is provided for energising the excitation winding and for processing the sensor signals to determine a value indicative of the relative position between the first and second relatively movable members.